

SDG 7: Affordable and Clean Energy

- Ensuring access to affordable, reliable, sustainable energy
- Themes in Sustainable Development
- Prof. Konstadinos Abeliotis

Key Challenges

- Energy inequality
- Dependence on fossil fuels
- Environmental impacts

Target 7.1: Energy Access

- Universal access to modern energy services by 2030

Target 7.2: Renewable Energy

- Increase share of renewables in global energy mix

Target 7.3: Energy Efficiency

- Double global rate of energy efficiency improvement

Target 7.A: Cooperation

- Promote international collaboration and clean energy investment

Target 7.B: Infrastructure

- Expand sustainable energy infrastructure in developing countries

Renewable Energy Sources

- Solar, Wind, Hydro, Geothermal, Biomass

Benefits of Renewable Energy

- Reduces emissions
- Sustainable and abundant
- Improves health

Energy and Climate Change

- Energy production is a major contributor to greenhouse gases

Role of Technology

- Smart grids, battery storage, and innovation improve efficiency

Role of Individuals

- Save energy, use efficient appliances, support renewables

Future Outlook/Conclusion

- Transition to net-zero emissions
- Growth in clean technologies
- Urgent need for action
- Global cooperation is essential